

VIN STEW- Melvin Butte Forest Management Project

Silviculture Treatment Specifications and Implementation Guidelines
Stewardship Imp Units 4
Updated 10/18/2016

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	Unit 4
EA Unit crosswalk	35
Acres:	16
Deschutes LRMP	M-18
Volland Plant Association:	CWS112
Majority Aspect:	107
Majority Slope (%):	29
Majority Elevation (ft):	5410
BA weighted QMD (in):	8.3

Marking/ Cutting Goals

- 1) Improve growing space for ponderosa pine
- 2) Contain mistletoe influence to the interior of the stand by strategic white fir retention and ponderosa pine thinning

Imp Unit #	TPA <5" DBH	TPA 5 to 9" DBH	TPA 9 to 21" DBH	TPA >21" DBH	BA/acre <5" DBH	BA/acre 5 to 9" DBH	BA/acre 9 to 21" DBH	BA/acre >21" DBH
4	101	85	54	4	6	23	51	12

Unit Discussion-

The unit contains dispersed medium to large white fir among a second and old growth cohort of highly infected dwarf mistletoe ponderosa pine. The stand roughly resembles a seed tree cut with the white fir component standing at a higher canopy position than the heavily mistletoe infested ponderosa pine. Due to stand age and past history none of the trees are >150 years old.

Saw-log marking/cutting guide-

- 1) Retain all white fir $\geq 25"$ DBH across the entire Unit
- 2) Retain all white fir 50' from the boundary of Service Unit 28- (southern boundary)
- 3) Remove all ponderosa pine 9" DBH - 20.9" DBH that indicate ≥ 3 DMR within 50ft from Service Unit 28 (same area as #2 above) **AND** the western boundary that adjoins the plantation (including the finger portion).
- 4) Retain all lodgepole pine
- 5) Retain all ponderosa pine outside of areas of #3 above (remainder of the stand)
- 6) Remove all white fir that don't meet #1 or #2 above

Non-saw cutting guide (<9"DBH) - none prescribed

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Prescribed fire Goal-

Utilized to reduce the heavily mistletoe infested small to medium tree component, reduce manzanita and reduce mistletoe infected lower branches.

Silvicultural Objectives to Rx Fire-

Reduce 0-5"DBH ponderosa pine by at least 50%

Reduce 5-9"DBH ponderosa pine by at least 25%

Reduce mistletoe infected brooms (all size classes) by scorch created from the activity of prescribed fire.

Residual mortality to >25"DBH white fir is accepted and may exceed 50%.